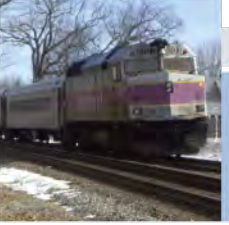
Fitchburg Commuter Rail Line Improvement Project

Project Update

June, 2016

HNTB

OPTIMIZE | Prioritize • Package • Perform



Program Definition/Goals

One Program/Multiple Projects:

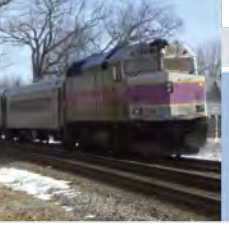
$172M	Small Starts/Rt 62 Bridge (FTA/State)
$ 10M	CPF-43 Interlocking (ARRA)
$ 43M	Double Tracking (ARRA/EOHED)
$ 74M	Wachusett Extension (TIGER/State)
$ 7M	N. Leominster Parking (FTA/State)
$306M	**Investment**

Improve Performance →

Increase Reliability/Access.

Decrease Travel Time

Extend Service



Program Construction Schedule

- CPF-43

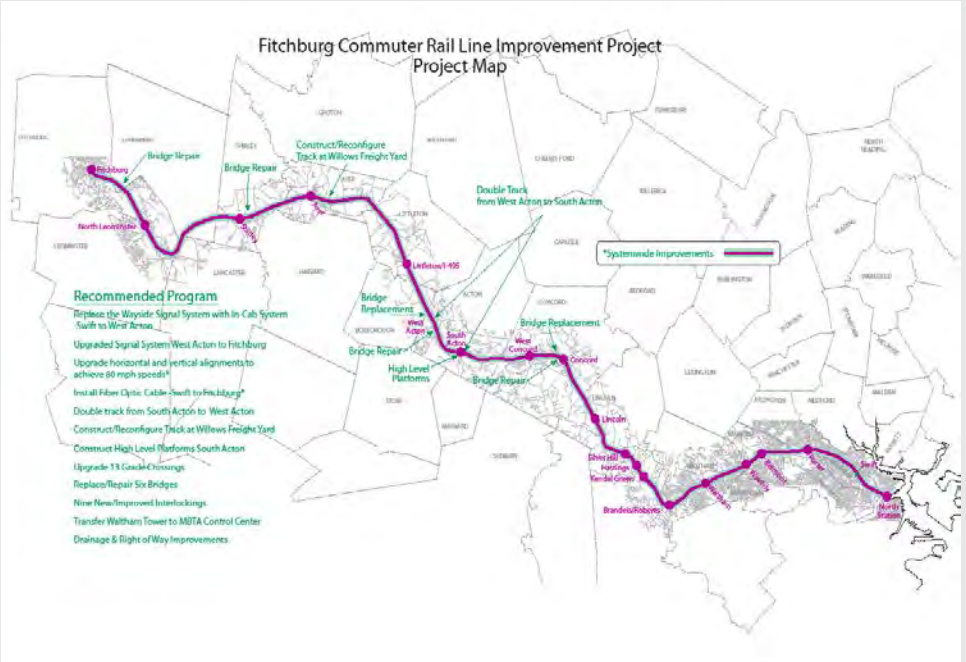
  Complete
- Double Track

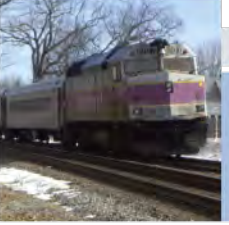
  Complete
- Small Starts/Rt.62

  Complete
- N. Leominster Parking Garage

  Complete
- Wachusett Extension

  Fall 2011 - 2016

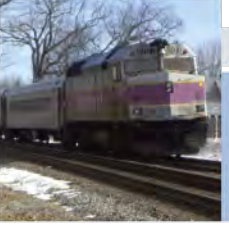




Double Track

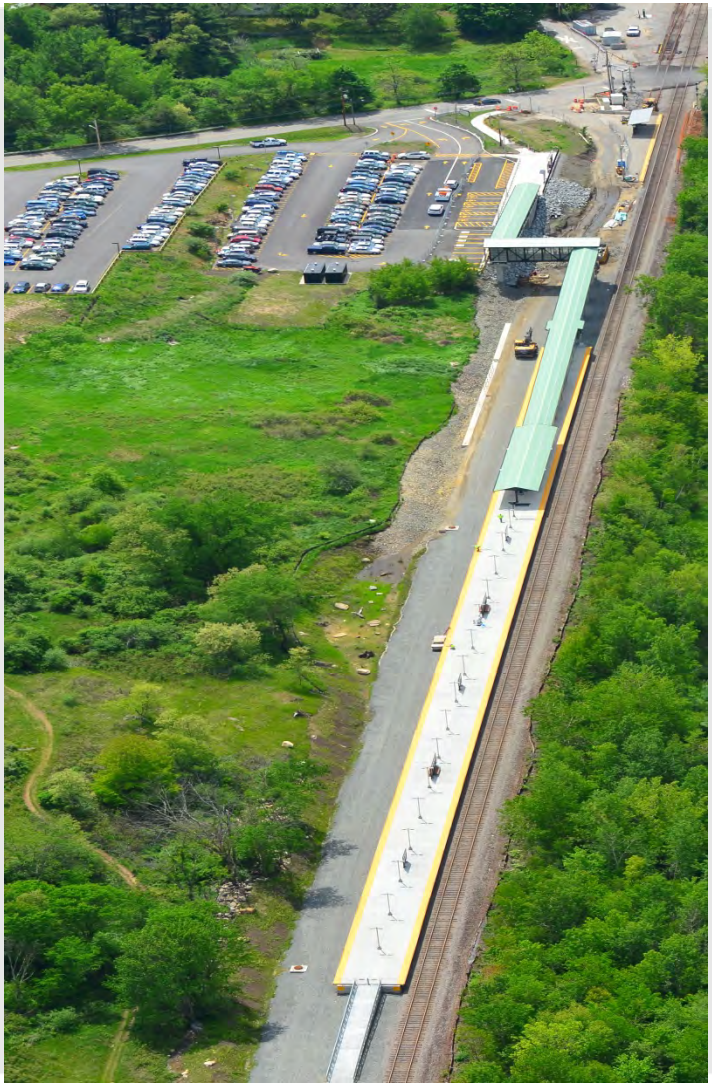
8 Mi. of Double Track/New Littleton-495 Station

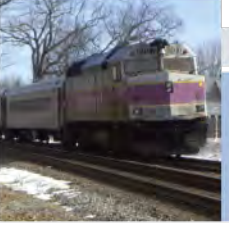
- Force Account Construction – MBCR
  - Track and Signal work complete
- Littleton Station Construction
  - Station and Parking complete



Double Track – Littleton Station

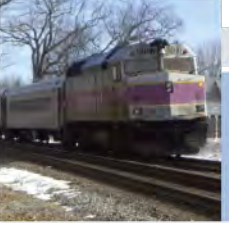
May 2013
Aerial Photo
(Courtesy of R. Coughlin)





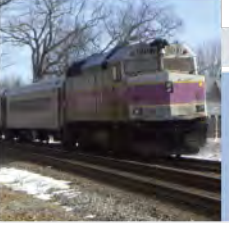
Small Starts Project

- New Signal System - Boston to Acton
- Upgraded track alignments to achieve 79 MPH
- 1 mi second track South Acton to West Acton
- Reconfigured track in Ayer freight area
- High level platforms at South Acton Station
- Upgraded 30 grade crossing warning systems
- Repaired or replaced seven (7) bridges
- Nine (9) new or modified interlockings
- Transfered Waltham Tower to MBTA Control Center



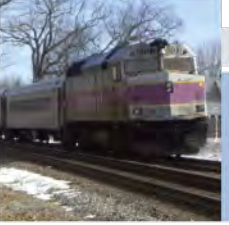
Small Starts Update

- Three Construction Packages
  - Track & Signal – started July 2013
  - Bridges – started Dec 2012
  - South Acton – started Dec 2012
- Project is complete
- New, faster train schedules
  - Started May 23, 2016



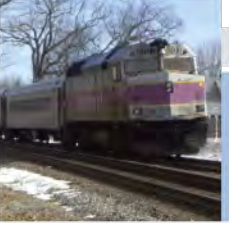
South Acton Station

Rendering of new station headhouse and overpass

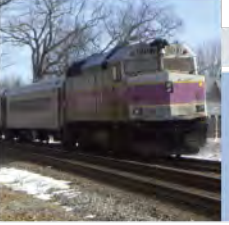


Station - Construction Status

- New station opened December 21, 2015
- Construction will be completed June 2016

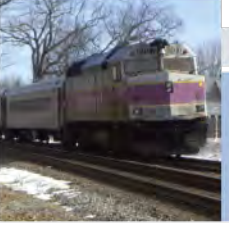


South Acton – Construction Progress



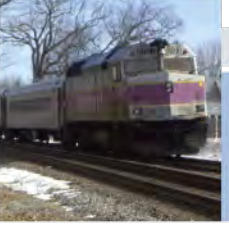
Bridges

Existing Route 62 Bridge in Concord

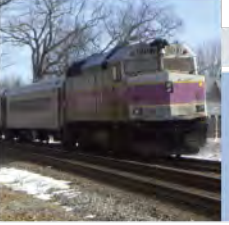


Bridges - Construction Status

- Bridge repairs complete
- New Route 62 bridge rolled-in end of Aug 2015



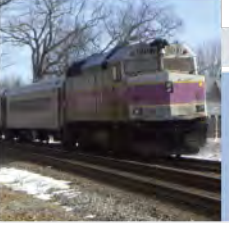
West Acton Bridge



Baker’s Brook Bridge

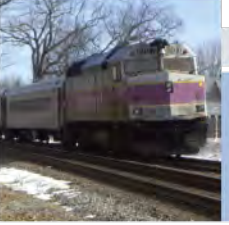
Mill Pond Bridge

Sudbury River Bridge



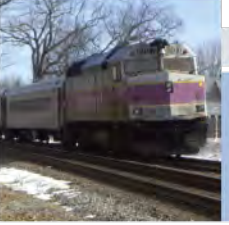
Assabet River Bridge

Route 62 Bridge



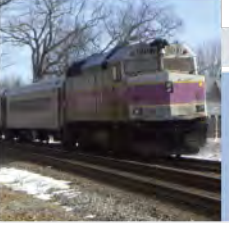
Track and Signal

Construction of new CP-18 Interlocking in Lincoln



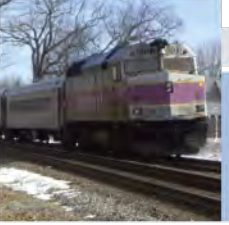
Track/Signal - Constr. Status

- Track replaced at 8 grade crossings
- New Crossovers installed in Belmont (CP-6),Lincoln (CP-18), Acton (CP-25), Ayer (CP-37), and Fitchburg (CP-48)
- New Switches installed at each end of Waltham single-track segment (CP-9 and CP-10)
- New signal system activated



Second Track in W. Acton

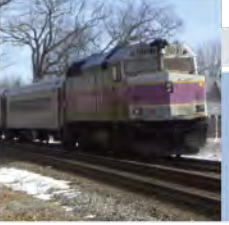
New crossover in Ayer



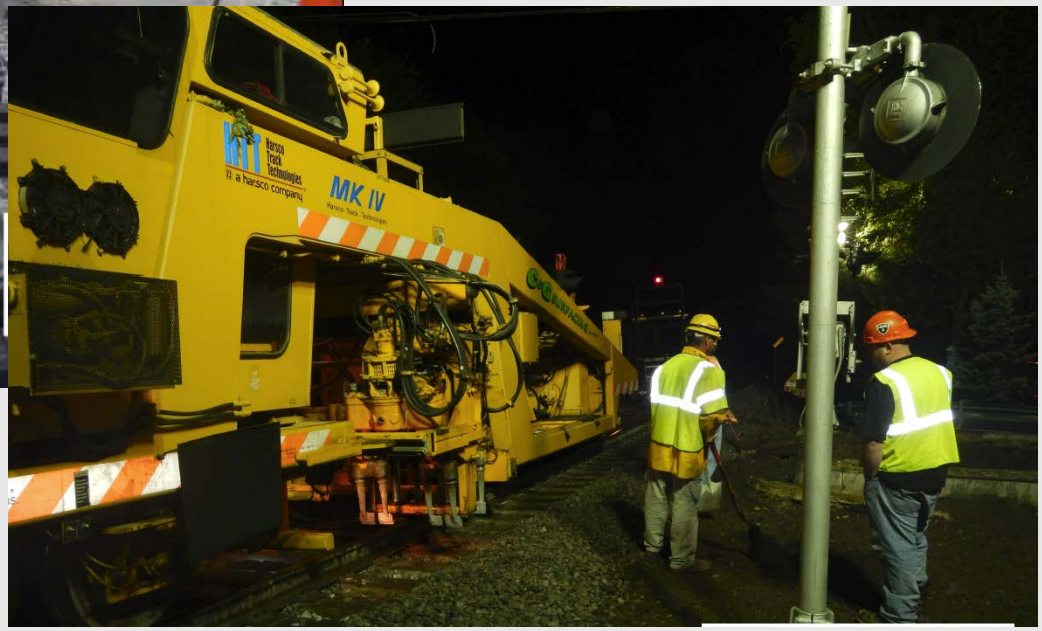
East Main St bridge Ayer – Lowering Track to improve freight clearance

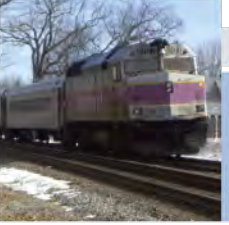
Installing new Signal in Concord

New signal and signal house in Lincoln

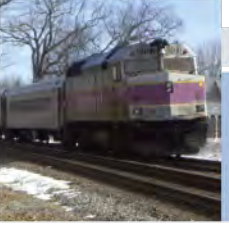


Grade Crossing Replacement – Tower Rd, Lincoln





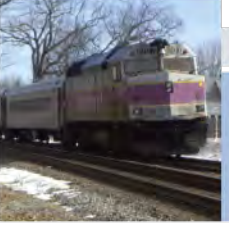
Curve Modifications to Increase Speed



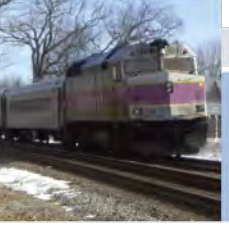
Curve Work - Belmont

Curve Work – W.Cambridge

New CP-37 Crossovers



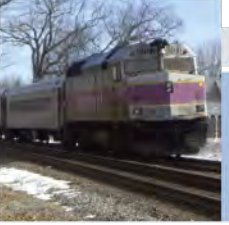
CP-25 Crossovers



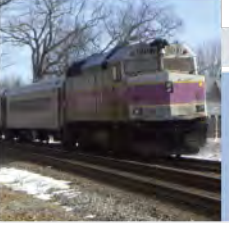
Construction Impact on Service

- Weekend service suspensions Fall 2013 to Fall 2015 successfully facilitated the work
- August 2014 to December 2015 - single track for Concord bridge work required adjustments to weekday train schedule
- *Bonus: Additional Service to Littleton-495*
- *Speed increases starting in January 2015*

CP-37 Friday Evening

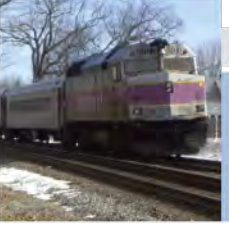


CP-37 Monday Morning



Wachusett Extension

- Design and permitting complete
- Four construction packages
  - Station/layover site prep – Complete
  - Station/layover construction – Underway
  - Bridge repairs – Underway
  - Pan Am track/signal work – Underway
- Service to start Fall 2016

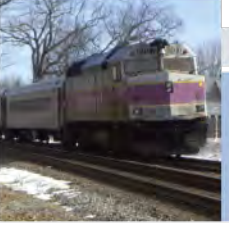


Wachusett Layover - Site

Wachusett Layover - Track

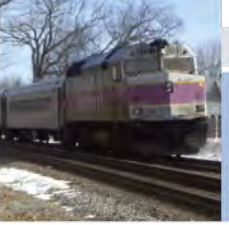
Wachusett Station - Walls

Wachusett Station - Parking

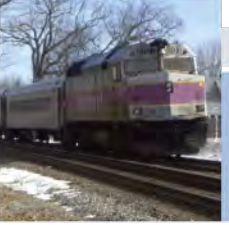


Wachusett Station

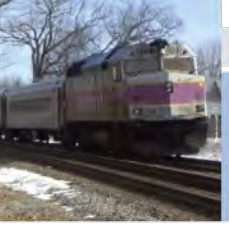
Wachusett Platform



Wachusett Track/Bridge Work

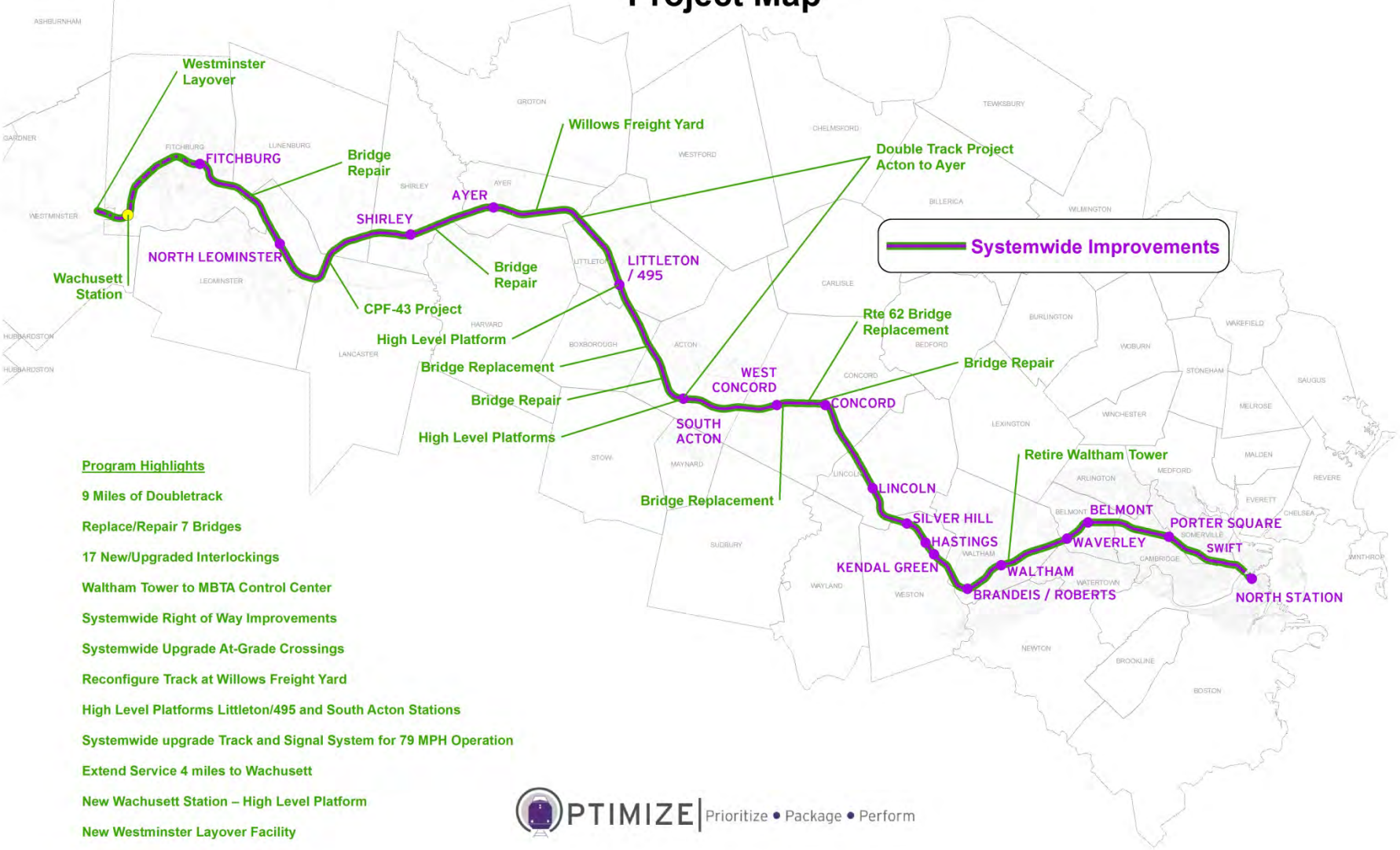


Wachusett – Track/Signal Work



Project Map

Fitchburg Commuter Rail Line Improvement Program
Project Map



Program Highlights

- 9 Miles of Doubletrack
- Replace/Repair 7 Bridges
- 17 New/Upgraded Interlockings
- Waltham Tower to MBTA Control Center
- Systemwide Right of Way Improvements
- Systemwide Upgrade At-Grade Crossings
- Reconfigure Track at Willows Freight Yard
- High Level Platforms Littleton/495 and South Acton Stations
- Systemwide upgrade Track and Signal System for 79 MPH Operation
- Extend Service 4 miles to Wachusett
- New Wachusett Station – High Level Platform
- New Westminster Layover Facility

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